
PERRY COUNTY

(Perry County Water Service Area Map)

- Estimated 1999 population of 31,100--60% on public water
- Estimated 2020 population of 32,100--86% on public water
- 155 miles of water lines, with plans for 215 additional miles
- Estimated funding needs for public water 2000-2005--\$7,150,000
- Estimated funding needs for public water 2006-2020--\$11,700,000

Perry County had an estimated population of 31,102 (11,673 households) in 1999 with a projected population of 32,100 (13,400 households) in 2020. Public water is provided to about 60 percent of the county's residents. In areas of the county not served by public water, about 5 of 6 households rely on private domestic wells and the remainder rely on other sources. About 3,430 customers will be added to public water service through new line extensions in 2000-2020.

The City of Hazard operates the only water treatment plant in Perry County. They currently sell wholesale water to the cities of Vicco and Buckhorn. The current source of water is not adequate to supply current needs under drought conditions, and could not supply the entire county under the best conditions. Perry County could benefit greatly from the proposed Carr Creek Water Plant, and could also be benefited by a plant on Buckhorn Lake. These two projects, along with the existing source should meet the entire county's future needs.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
PERRY								-
Hazard Water Company	57.4	695	3,150		3,000			6,150
Vicco	19.7	525	1,000					1,000
Buckhorn	No	short range	projects	due to	source	Limitations		-
Total	77.1	1,220	4,150		3,000		0	7,150

WATER SERVICE AREAS

PERRY COUNTY

Kentucky

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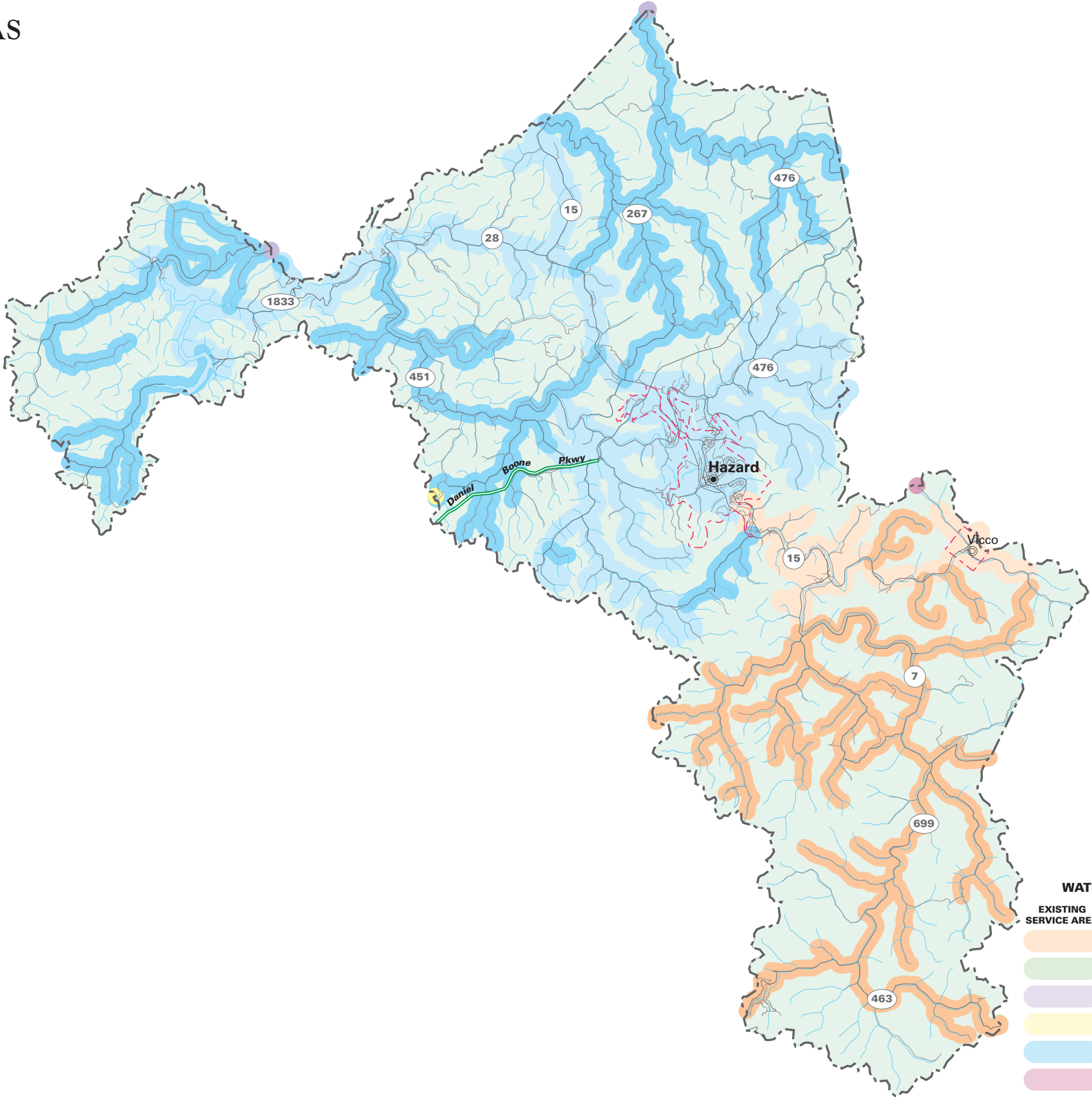
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WATER SERVICE STATUS BY OWNER		
EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		VICCO WATER SUPPLY
		LETCHER COUNTY WATER DISTRICT
		JACKSON MUNICIPAL WATER WORKS
		HYDEN LESLIE COUNTY WATER DISTRICT
		HAZARD WATER DEPARTMENT
		CANEY CREEK WATER DISTRICT



Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
PERRY								-
Hazard Water Company	31.0	368	1,600					1,600
Vicco	72.0	1539	4,000					4,000
Buckhorn	35.5	302	1,800			4,000	300	6,100
Total	138.5	2,209	7,400			4,000	300	11,700

PUBLIC WATER SYSTEMS

Perry County is served by 18 public and semi-public water systems: 3 municipal--Hazard Water Department, Vicco Water Supply, and the City of Buckhorn; 1 private community system; and 14 non-community systems.

HAZARD WATER DEPARTMENT

PWSID: 0970184
 System Type: COMMUNITY
 Owner Type: MUNICIPAL
 Surface Source: NORTH FORK KENTUCKY RIVER
 Purchase Source:
 Well Source:
 Sells Water to: VICCO WATER SUPPLY
 Treatment Plant Capacity (MGD): 4.00
 Percent Daily Average Production: 66.00
 Total Tank Storage Capacity (gallons): 8,700,000.00
 Total Service Connections: 5,800.00
 Number of Employees: 6.00
 Treatment Operator Class: 3D
 Distribution Operator Class: 4A
 Customer Rate for 1,000 Gallons: Not available
 O/M costs 1997: Not available
 O/M costs per Service Connection: Not available
 Net Revenue 1997: Not available
 Total Water Produced 1997 (gallons): Not available
 Water Sold 1997 (gallons): Not available
 Unaccounted-for Water 1997 (%): Not available

The City of Hazard draws its water from the North Fork of the Kentucky River. The system currently serves about 5,800 households. Additionally, they provide treated water to the Buckhorn and Vicco systems. Permitted withdrawal from the North Fork is 3.15 mgd. Plant capacity is 4 million gpd, with an average daily production of 2.7 million gallons. Storage capacity is 8.7 million gallons. Rates inside the city are \$11.74 for the first 2,000 gallons and \$17.58 outside the city. They have 6 full time employees.

The current planned expansions will just about deplete the permitted water withdrawal from the North Fork. The Hazard Water Plant does not have adequate source or capacity to serve both the northwestern and southern portions of the county.

VICCO WATER SUPPLY

PWSID: 0970484
System Type:..... COMMUNITY
Owner Type: MUNICIPAL
Surface Source:
Purchase Source:HAZARD MASTER METER
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD):..... 0.00
Percent Daily Average Production:..... 0.00
Total Tank Storage Capacity (gallons): 500,000.00
Total Service Connections: 740.00
Number of Employees:..... 6.00
Treatment Operator Class:2D
Distribution Operator Class:
Customer Rate for 1,000 Gallons:..... 8.78
O/M costs 1997:Not available
O/M costs per Service Connection:Not available
Net Revenue 1997:Not available
Total Water Produced 1997 (gallons):.....Not available
Water Sold 1997 (gallons):.....Not available
Unaccounted-for Water 1997 (%):Not available

The City of Vicco purchases its water from the Hazard Water Plant. They currently purchase 150,000 gpd and provide water to about 700 households. Storage capacity is 500,000 gallons. Rates for the first 2,000 gallons are \$16.50 inside the city and \$18.63 outside the city limits. They employ 6 people.

The City of Vicco has passed a resolution of intent to form the Carr Creek Water Commission. This will provide them with the opportunity to serve the southern portion of Perry County. However, they are in need of immediate infrastructure repairs and upgrades. They have a current water loss rate of around 40%.

CITY OF BUCKHORN

The City of Buckhorn purchases its water from the City of Hazard. The city provides water to about 120 customers along with the Buckhorn School and the Buckhorn Children's Home. They are very interested in expanding services, and could even serve about 50 customers in southern Breathitt County if they had a source of water. The city has expressed

an interest in the location of a treatment plant on Buckhorn Lake, which could serve several surrounding counties.

OTHER SYSTEMS

NEW TRIBES MISSION

New Tribes Mission is located in Perry County. The system serves a population of 60 and has 5 service connections. The private, community system has treatment capacity of 6,400 gallons per day and the water source is wells.

CHRISTY'S DAIRY BAR/RESTAURANT

Christy's Dairy Bar/Restaurant is located in Perry County. The system serves a population of 25 and has 1 service connection. The private, transient, non-community system has treatment capacity of 80 gallons per day and the water source is wells.

ROBINSON ELEMENTARY SCHOOL

Robinson Elementary School is located in Perry County. The system serves a population of 351 and has 2 service connections. The local, non-transient, non-community system has treatment capacity of 30,000 gallons per day and the water source is wells.

VIPER ELEMENTARY SCHOOL

Viper Elementary School is located in Perry County. The system serves a population of 559 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 42,000 gallons per day and the water source is wells.

WILLARD ELEMENTARY SCHOOL

Willard Elementary School is located in Perry County. The system serves a population of 400 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 6500 gallons per day and the water source is wells.

CHANNEY'S RESTAURANT

Chaney's Restaurant is located in Perry County. The system serves a population of 50 and has 15 service connections. The private, transient, non-community system has treatment capacity of 5,000 gallons per day and the water source is wells.

LEATHERWOOD ELEMENTARY SCHOOL

Leatherwood Elementary School is located in Perry County. The system serves a population of 336 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 35,000 gallons per day and the water source is wells.

MOUNTAIN COMPREHENSIVE CARE CORP

Mountain Comprehensive Care Corp. is located in Perry County. The system serves a population of 90 and has 1 service connection. The private, non-transient, non-community system has treatment capacity of 8,000 gallons per day and the water source is wells.

HOMEPLACE CLINIC

Homeplace Clinic is located in Perry County. The system serves a population of 75 and has 3 service connections. The private, transient, non-community system has treatment capacity of 6,000 gallons per day and the water source is wells.

LOST CREEK SCHOOL

Lost Creek School is located in Perry County. The system serves a population of 200 and has 1 service connection. The local, non-transient, non-community system has treatment capacity of 10,000 gallons per day and the water source is wells.

LITTLE FOLKS SHOP HEADSTART

Little Folks Shop Headstart is located in Perry County. The system serves a population of 100 and has 5 service connections. The local, non-transient, non-community system has treatment capacity of 10,080 gallons per day and the water source is wells.

CAMPBELLS BP SERVICE

Campbells BP Service is located in Perry County. The system serves a population of 100 and has 1 service connection. The private, transient, non-community system has treatment capacity of gallons per day and the water source is wells

PENNY'S COUNTRY KITCHEN

Penny's Country Kitchen is located in Perry County. The system serves a population of 30 and has 15 service connections. The private, transient, non-community system has treatment capacity of 5,000 gallons per day and the water source is wells

ROARK'S BP FOOD MART

Roark's BP Food Mart is located in Perry County. The system serves a population of 100 and has 1 service connection. The private, transient, non-community system has treatment capacity of 10,000 gallons per day and the water source is wells.

TWIN ROCKS BIBLE CAMP

Twin Rocks Bible Camp is located in Perry County. The system serves a population of 25 and has 8 service connections. The private, transient, non-community system has treatment capacity of gallons per day and the water source is wells.

PRIVATE DOMESTIC SYSTEMS

About 12,400 residents of Perry County rely on private domestic water supplies: 10,300 on wells, and 2,100 on other sources.

Most rural Perry Countians have drilled wells. As is the case throughout the district, iron and sulfur are common problems. In the eastern half of Perry County more than three-quarters of the wells drilled in valley bottoms and on mountainsides are adequate for a domestic supply. Some wells on ridges and mountaintops are adequate for domestic supply. Drilled wells more than 200 feet deep in valleys may yield enough water for small municipal or industrial supplies. In the western half of the county most wells drilled in valley bottoms are adequate for domestic supply. Fewer than half the wells on hillsides are adequate to meet the needs for a modern domestic supply. Wells on mountaintops and ridges yield smaller quantities of water.

Almost all ground water obtained from most drilled wells in this area is moderately to extremely hard and contains noticeable amounts of iron. Salty water may be found from 50 to several hundred feet below the level of the principal valley bottoms, except in the eastern half of the county where salty water probably will not be found less than 200 feet.

A few springs supply sufficient quantities of water for domestic use, usually produces less than 5 gpm.
